

Project Baseline Summary Report

Data Source: **EM CDB**
Operations/Field Office: **Chicago**
Site Summary Level: **Ames Laboratory**
Project **CH-AMESRA / Ames Remedial Actions**

Report Number: **GEN-01b**
Print Date: **3/9/2000**
HQ ID: **0025**

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

Definition of Scope: The final Phase II RI, final Focused Feasibility Study/Proposed Plan, and final "Record of Decision" called for monitoring 10 wells semi-annually for 2 years. Re-evaluation of the need to do additional monitoring was to be made at the end of the 2-year period. Site monitoring activities now follow the "Supplemental Sampling and Monitoring Plan" agreed to by DOE, Iowa State University, and the state regulatory agencies.

DOE provided funds to Iowa State University through Ames Laboratory for a hydrogeological study that was completed by the end of FY 1997. The final report was completed in the first quarter of FY 1998.

Water sampling and analysis will continue in accordance with the "Supplemental Sampling and Monitoring Plan" agreed to by DOE, ISU, the Iowa Department of Natural Resources and the Iowa Department of Public Health. Sampling was quarterly the first year, and is anticipated to be annually the next four years.

Technical Approach: The Chemical Disposal Site (CDS) hydrology study consisted of piezometer water level measurements and a tracer dye study.

The previous supplemental soil sampling used both site and background locations. Samples were from surface, shallow and intermediate depths. Analyses were gross alpha/beta and gamma spectroscopy. Selected samples underwent alpha spectroscopy for uranium and thorium.

The first two water sampling events were in FY 1997, and used background and site samples of groundwater and surface water. The third event was in FY 1998 (late October 1997). The fourth event was scheduled for January 1998. Future annual water samples would be collected in the spring of each year. The sampling uses all site wells, designated background wells, three site seepage points and upstream Squaw Creek for surface water background. Analyses are gross alpha/beta and gamma spectroscopy. Selected samples may undergo alpha spectroscopy for uranium and/or thorium.

After sampling is complete, the Iowa DNR may be petitioned to remove the site from its Registry of Abandoned or Uncontrolled Sites, under the Code of Iowa 455B.430.

Project Status in FY 2006:

Complete - no further DOE requirements.

Post-2006 Project Scope:

Complete; no further DOE requirements.

Project End State

The site is on University owned property. However, it is conceivable that the University may wish to build a structure on the processing pad that remains from the interim removal action. No long term S&M is required. The Iowa Department of Public Health has accepted ISU's recommendation

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that the CDS be released on an unrestricted basis.

Cost Baseline Comments:

In FY 1999, DOE is making a one-time payment to Iowa State University for a portion of the costs of annual water monitoring through FY 2002. It is anticipated that there will be no further costs to EM after FY 1999.

Safety & Health Hazards:

No dedicated direct funded safety and health function are associated with this project. the costs of site wide safety and health support functions are paid by all direct funded activities through overhead pools. Safety and Health costs are being reported in the ES&H Management Plan.

Safety & Health Work Performance:

No dedicated direct funded safety and health functions are associated with this project. The costs of site wide safety and health support functions are paid by all direct funded activities through overhead pools. Safety and Health costs are being reporting in the ES&H Management Plan.

PBS Comments:

Per agreement with Iowa Department of Natural Resources, DOE is responsible for groundwater monitoring and reporting.

Baseline Validation Narrative:

Baseline reflects actuals since project is completed.

General PBS Information

Project Validated?

Date Validated:

Has Headquarters reviewed and approved project?

No

Date Project was Added: 12/1/1997

Baseline Submission Date: 7/7/1999

FEDPLAN Project? Yes

Drivers:	CERCLA	RCRA	DNFSB	AEA	UMTRCA	State	DOE Orders	Other
	Y	Y	N	N	N	Y	Y	Y

Project Identification Information

DOE Project Manager: James Buchar

DOE Project Manager Phone Number: 630-252-2402

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General PBS Information

DOE Project Manager Fax Number: 630-252-2412

DOE Project Manager e-mail address: james.buchar@ch.doe.gov

Is this a High Visibility Project (Y/N):

Planning Section

Baseline Costs (in thousands of dollars)

	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006	
PBS Baseline (current year dollars)	305	0	305	202	202	103	78		0	0	0	0	0	0	0	
PBS Baseline (constant 1999 dollars)	305	0	305	202	202	103	78		0	0	0	0	0	0	0	
PBS EM Baseline (current year dollars)	305	0	305	202	202	103	78		0	0	0	0	0	0	0	
PBS EM Baseline (constant 1999 dollars)	305	0	305	202	202	103	78		0	0	0	0	0	0	0	
	2007	2008	2009	2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
PBS Baseline (current year dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (current year dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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	2007	2008	2009	2010	2011- 2015	2016- 2020	2021- 2025	2026- 2030	2031- 2035	2036- 2040	2041- 2045	2046- 2050	2051- 2055	2056- 2060	2061- 2065	2066- 2070
PBS EM Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Baseline Escalation Rates

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
0.00%	0.00%		2.70%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%
2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%

Project Reconciliation

Project Completion Date Changes:

Previously Projected End Date of Project: 9/1/1997

Current Projected End Date of Project: 9/30/1999

Explanation of Project Completion Date Difference (if applicable):

Release sites were completed in FY 1997; however, finalization of project is pending grant to Iowa State University for final DOE share of monitoring costs. FY 1999 costs for this are in PBS CH-COPS.

Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	237	Actual 1997 Cost:	202	Actual 1998 Cost:	78
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	-43	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):			-1
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	-44				

Project Cost Changes

Cost Adjustments Reconciliation Narratives

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Project Reconciliation

Cost Change Due to Scope Deletions (-):

Cost Reductions Due to Efficiencies (-):

Cost Associated with New Scope (+):

Cost Growth Associated with Scope Previously Reported (+): 44 Final FY 1997 cleanup costs were slightly greater than anticipated.

Cost Reductions Due to Science & Technology Efficiencies (-):

Subtotal: 0

Additional Amount to Reconcile (+): 0

Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars): 0

Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
License Expires for Former Chemical Disposal Site	CH-AMES-RA-001		9/30/1999								
Project Start	CH-AMES-RA-002		10/1/1996								

Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
License Expires for Former Chemical Disposal Site	CH-AMES-RA-001				Y						
Project Start	CH-AMES-RA-002			Y							

Performance Measure Metrics

Category/Subcategory	Units	1997-2006 Total	2007-2070 Total	1997-2070 Total	Actual Pre-1997	Planned 1997	Actual 1997	Planned 1998	Planned 1999	Planned 2000	Planned 2001	Planned 2002	Planned 2003	Planned 2004
RS														
Assess.	NR	1.00	0.00	1.00	10.00	1.00	1.00							

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Category/Subcategory	Units	1997-2006 Total	2007-2070 Total	1997-2070 Total	Actual Pre-1997	Planned 1997	Actual 1997	Planned 1998	Planned 1999	Planned 2000	Planned 2001	Planned 2002	Planned 2003	Planned 2004
RS														
Cleanup	NR	1.00	0.00	1.00	10.00	1.00	1.00							
Category/Subcategory	Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035	
RS														
Assess.	NR													
RS														
Cleanup	NR													
Category/Subcategory	Units	Planned 2036 - 2040	Planned 2041 - 2045	Planned 2046 - 2050	Planned 2051 - 2055	Planned 2056 - 2060	Planned 2061 - 2035	Planned 2066 - 2070	Exceptions	Lifecycle Total				
RS														
Assess.	NR									11.00				
RS														
Cleanup	NR									11.00				

Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
AMES	0001		UNDERGROUND STORAGE TANK CONTAMINATION	Tanks/Underground Storage Tanks	1995		9/30/1995	1995		9/30/1995		Y	Approved	N
AMES	0002		CHEMICAL DISPOSAL SITE	Waste/Landfills	1997		2/26/1997	1997		2/26/1997		N	Approved	Y
AMES	0003		AIRPORT	Dispersed Surface Contamination/Above Ground Tests	1995		9/30/1995	1995		9/30/1995		Y	Approved	Y

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AMES	0004		AMES LABORATORY RESEARCH REACTOR	Dispersed Surface Contamination/Above Ground Tests	1995		9/30/1995	1995		9/30/1995		Y	Approved	Y
AMES	0005		ANNEX I	Dispersed Surface Contamination/Above Ground Tests	1995		9/30/1995	1995		9/30/1995		Y	Approved	Y
AMES	0006		ANNEX II	Dispersed Surface Contamination/Above Ground Tests	1995		9/30/1995	1995		9/30/1995		Y	Approved	Y
AMES	0007		BLOCK HOUSE	Dispersed Surface Contamination/Above Ground Tests	1995		9/30/1995	1995		9/30/1995		Y	Approved	N
AMES	0008		CEMETERY	Dispersed Surface Contamination/Above Ground Tests	1995		9/30/1995	1995		9/30/1995		Y	Approved	Y
AMES	0009		GRAND AVENUE UNDERPASS	Dispersed Surface Contamination/Above Ground Tests	1995		9/30/1995	1995		9/30/1995		Y	Approved	Y
AMES	0010		LITTLE ANKENY DEBRIS SITE.	Dispersed Surface Contamination/Above Ground Tests	1995		9/30/1995	1995		9/30/1995		Y	Approved	Y
AMES	0011		OLD AMES SEWAGE PLAN	Dispersed Surface Contamination/Above Ground Tests	1995		9/30/1995	1995		9/30/1995		N	Approved	Y

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